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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,725	10/766,725 01/27/2004		Kwang-Hae Choi	678-1134 (P10758)	3443
28249	7590	10/07/2005		EXAM	INER
		RRESE, LLP	HUYNH, CHUCK		
333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553				ART UNIT	PAPER NUMBER
	····			2683	

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/766,725	CHOI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chuck Huynh	2683				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication. INTHE from the mailing date of this communication. INTHE from the mailing date of this communication. INTHS from the mailing d				
Status						
1) Responsive to communication(s) filed on 27	<u> </u>					
· <u> </u>	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	·	·				
	Ex parte Quayle, 1000 O.	B. 11, 400 O.G. 210.				
Disposition of Claims						
 4) Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdrases 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ 	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correctable. 11) The oath or declaration is objected to by the Examin	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in a correct or a correct occuments have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)				

Art Unit: 2683

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Findikli in view of Soliman.

Regarding claim 1, Findikli A communication system for selecting a PLMN (Public Land Mobile Network), comprising:

an MS (Mobile Station) for transmitting an MIN (Mobile Identification Number) message, an ESN (Electronic Serial Number) message and a location update request signal containing location information for registering the location of the MS (Col 1, lines 43-59; Col 2, lines 3-20, 47-51) and for searching for the PLMN on the basis of an HPLMN search period value corresponding to the location update request signal (Col 1, lines 60 – Col 2, lines 2);

an MSC (Mobile Switching Center) for performing an authentication procedure for the MS transmitting the location update request signal and extracting the location information from the location update request signal (Col 1, lines 60 – Col 2, lines 2);

Art Unit: 2683

a VLR (Visitor Location Register) for storing subscriber data of the MS provided from outside the MS and registering a location of the MS (Col 1, lines 36, 60 – Col 2, lines 2); and

an HLR (Home Location Register) for updating the location information of the MS extracted from the MSC, variably setting a search period value at a time of searching for an HPLMN or higher-priority PLMN on the basis of the location information of the MS and transmitting the set search period value to the MS (Col 1, lines 51 – Col 2, lines 20, 48-56, 34; Col 4, lines 7-55).

Even though Findikli clearly discloses all the particulars of the claim and suggests that the search period is set on the basis of the location information of the MS, Findikli does not explicitly disclose it in the text.

However, Soliman, does disclose that the search period (search window size) is set on the basis of the location information of the MS (Page 10, line 10 – Page 11, line 2; Page 8, line 5 – Page 9, line 7).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Soliman's disclosure with Findikli to provide a more efficient way to search for communication service.

Regarding claims 2 and 10, Findikli discloses the communication system as set forth in claim 1 and 9 respectively, wherein the HLR sets the search period value to a value larger than a set threshold value if the HLR determines that the HPLMN and PLMN do not exist in a predetermined range, on the basis of the location information

Art Unit: 2683

(Col 6, lines 12-54) (as the system performs a full scan or a power-up scan (Col 6, line26, 45) the time period is increase to be longer than the partial (shorten time period Col 6, line 43) scan); and

wherein the HLR sets the search period value to a value smaller than a set threshold value if the HLR determines that at least one of the HPLMN and PLMN exists in a predetermined range, on the basis of the location information (Col 6, lines 12-54) (partial (shorten time period Col 6, line 43) scan).

Regarding claims 3 and 11, Findikli discloses the communication system as set forth in claim 1 and 9 respectively, wherein the HLR sets the search period value "0" if the HLR determines that the HPLMN and PLMN do not exist in a predetermined range, on the basis of the location information (Col 7, lines 28-44).

Regarding claims 4 and 12, Findikli discloses the communication system as set forth in claim 2 and 10 respectively, wherein the HLR newly sets the search period value when newly receiving the location information (CoI 1, line 60 – CoI 2, line 20).

Regarding claims 5 and 13, Findikli discloses all the particulars of the claim, but is not explicitly clear on the communication system as set forth in claim 4 and 12 respectively, wherein the location information is geographic information on a map.

Art Unit: 2683

However, Soliman does disclose the communication system as set forth in claim 4, wherein the location information is geographic information on a map (Page 9, line 9 – Page 10, line18).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Soliman's disclosure to provide more specific location information.

Regarding claims 6 and 14 and considering Soliman's disclosure of GPS (Page 9-10), it is well known in the art that the communication system as set forth in claim 5 and 13 respectively, wherein the location information comprises latitude information and longitude information associated with the location of the MS.

Regarding claim 7 and 15, Findikli discloses the communication system as set forth in claim 1 and 9 respectively, wherein the subscriber data is information associated with corresponding service subscription using the MS (Col 2, lines 3-20).

3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Findikli in view of Soliman in further view of Tiedemann et al.

Regarding claim 8, Findikli in view of Soliman discloses all the particulars of the claim except for the technology of the communication system as set forth in claim 1,

Art Unit: 2683

wherein the HLR transmits the period value to the MS using an OTA (Over The Air) method.

However, Tiedemann does disclose the technology of OTA data transfer between the HLR and the MS (Page 5, [0072]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Tiedemann's disclosure of OTA data transfer to provide communication of data transmission within the system.

4. Claim 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Findikli in view of Salmivalli in further view of Soliman.

Regarding claim 9, Findikli discloses a method for selecting a PLMN (Public Land Mobile Network) in an MS

(Mobile Station) using a communication system, the communication system including the MS, an MSC (Mobile Switching Center), a VLR (Visitor Location Register) and an HLR (Home Location Register), comprising the steps of:

a) transmitting subscriber identification information and authentication information for authenticating the MS according to a location update request signal containing location information of the MS received from the MS (Col 1, lines 51-66);

b) if the location information is received from the MSC through an authentication procedure by the MSC (Col 1, line 51 – Col 2, line 20; Col 2, lines 35-42), updating the location information (Col 1, lines 62-66).

Even though Findikli discloses all the particulars of the claim, Findikli does not fully disclose allowing the MS to request a previous VLR of the MS to release previously registered location information; and

- c) if the location information previously registered by the previous VLR is released, inserting subscriber data for the MS into the VLR; and
- d) variably setting a search period value at a time of searching for an HPLMN or higher-priority PLMN on the basis of the location information of the MS and transmitting the set search period value to the MS.

However, Salmivalli does disclose authenticating and allowing the MS to request a previous VLR of the MS to release (delete) previously registered location information (Col 2, lines 3-24).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Salmivalli's disclose to provide a more secure network and accurate positioning of subscriber device.

Salmivalli also discloses feature c) of claim 1 where if the location information previously registered by the previous VLR is released, inserting subscriber data for the MS into the (new) VLR (Col 2, lines 17-24).

Art Unit: 2683

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Salmivalli's disclosure to provide an accurate update of subscriber device's location for communication within the network.

Even though Findikli in view of Salmivalli clearly discloses all the particulars of the claim and Findikli even suggests variably setting a search period value at a time of searching for an HPLMN (Col 4, lines 23-40; Col 2, lines 8-15), but may not specifically rely on specific location information.

However, Soliman, does disclose variably setting a search period value on the basis of the location information of the MS and transmitting the set search period value to the MS. (Page 10, line 10 – Page 11, line 2; Page 8, line 5 – Page 9, line 7; Page 18, line 12 – Page 19, line 5).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Soliman's disclosure with Findikli to provide a more efficient way to search for communication service.

Regarding claim 16, the method as set forth in claim 9, wherein step d) comprises the step of:

transmitting the period value to the MS using an OTA (Over The Air) method is well known in the art. The method of OTA is prevalent in the art of data transmission; in this case a period value is data.

Art Unit: 2683

Conclusion

Page 9

5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Please refer to reference-cited page.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuck Huynh whose telephone number is 571-272-

7866. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Trost can be reached on 571-272-7872. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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WILLIAM TROST SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600

Chuck Huynh